TOXICOLOGY

Vol. 83 Nos. 1–3 **October 25th, 1993**

CONTENTS

Cited in: Biological Abstracts, Cambridge Scientific Abstracts, Chemical Abstracts; Current Contents/Life Sciences Excerpta Medica (EMBASE); Environmental Mutagene Information Center; Environmental Periodicals Bibliography; Index Medicus

Editorial ..... **vii–viii**

The effect of Ca^{2+}, Cd^{2+} and Ni^{2+} on detergent-permeabilized vascular smooth muscle from the shark, *Squalus acanthias* (**The only sites of the action of nickel or of cadmium on shark aortic vascular smooth muscle appear to be sarcolemmal**)
D.H. Evans, E. Chipouras, T. Toop, J.A. Donald (Gainesville, FL and Salsbury Cove, ME) **1–8**

Some effects of ochratoxin A, a mycotoxin contaminating feeds and food, on rat testis (**Some indicator enzymes as well as testosterone levels are increased after chronic treatment**)
A. Gharbi, O. Trillon, A.M. Betbeder, J. Counord, M.F. Gauret, A. Pfohl-Leszkowicz, G. Dirheimer, E.E. Creppy (Bordeaux and Strasbourg, France) **9–18**

The interaction of 2,4-dichlorophenoxyacetic acid, ribosomes and polyamines in *Azospirillum brasilense* (**2,4-D alters polyamine metabolism and affects protein synthesis at the ribosomal level**)
A. Fabra, W. Giordano, V. Rivarola, G. Mori, S. Castro, H. Balegno (Rio Cuarto-Córdoba, Argentina) **19–29**

Depletion of total non-protein sulphydryl groups in mouse tissues after administration of *d*-amphetamine (**The sulphydryl content decreases in two tissues only, namely liver and kidney, in paired housing more so than in solitary animals**)
F.D. Carvalho, M. de Lurdes Bastos, J.A. Timbrell (Oporto, Portugal and London, UK) **31–40**

Cytochrome P450IA1 activity in human myometrium and uterine leiomyoma: Influence of smoking (**Smoking increases AHH activity in both tissues**)
S. Lamminen, K. Pyykkö, M. Rorarius, R. Tuimala (Tampere, Finland) **41–48**

Trifluoromethylanilines — their effect on DNA synthesis and proliferative activity in parenchymal organs of rats (**4-Trifluoromethylaniline has a biphasic effect on thymidin incorporation into splenic and thymic DNA**)
J. Seifert, H. Mostecká, G.F. Kolar (Prague, Czech Republic and Heidelberg, Germany) **49–59**

Mercury-metallothionein and the renal accumulation and handling of mercury (**Mercury uptake and disposition are altered significantly when the metal is administered intravenously as a metallothionein complex**)
R.K. Zalups, M.G. Cherian, D.W. Barfuss (Macon and Atlanta, GA; Ontario, Canada) **61–78**

The effect of hydroxyl-containing dithiocarbamates on cisplatin-induced long-term renal dysfunction in Wistar rats (**Renal protection is less impressive after 30 days than it is earlier after dithiocarbamate treatment**)
L.V. Reznik, S.P. Gambaryan, M.M. Jones (St. Petersburg, Russia; Nashville, TN) **79–91**

Subacute toxicity of piperonyl butoxide in ICR mice (**Liver damage was the most prominent sign, whereas no evidence for renal toxicity was found**)
T. Fujitani, T. Tanaka, Y. Hashimoto, M. Yoneyama (Tokyo, Japan) **93–100**

Effect of exposure to low level lead on growth and growth hormone release in rats (**Low levels of lead can reduce pituitary responsiveness to a hypothalamic stimulus**)
A.M. Camoratto, L.M. White, Y.-S. Lau, G.O. Ware, W.D. Berry, C.M. Moriarty (Athens, GA and Omaha, NE) **101–114**

(*continued on page 238*)

Printed in Ireland

This journal is printed on acid-free paper.

0300-483X(19931025)83:1/3;1-Z

Vanadium treatment of diabetic Sprague–Dawley rats results in tissue vanadium accumulation and prooxidant effects (**While V did not cause alterations in the antioxidant defense system, tissue V concentrations were positively correlated to signs of lipid peroxidation**)
M.H. Oster, J.M. Llobet, J.L. Domingo, J.B. German, C.L. Keen (Davis, CA and Barcelona, Spain) **115–130**

Electron paramagnetic resonance studies of the effects of methoxyacetic acid, a teratologic toxin, on human erythrocyte membranes (**It is speculated that the teratotoxicity of methoxyacetic acid is mediated through interactions of the toxin with specific proteins**)
J. Lee, C.H. Trad, D.A. Butterfield (Lexington, KY and New York, NY) **131–14**

Selective removal of copper bound to metallothionein in the liver of LEC rats by tetrathiomolybdate (**Tetrathiomolybdate injections effectively cure animals from otherwise lethal signs**)
K.T. Suzuki, K. Yamamoto, S. Kanno, Y. Aoki, N. Takeichi (Chiba, Ibaraki, and Sapporo, Japan) **149–158**

Airway epithelial labeling index as an indicator of ozone induced lung injury (**In vivo labeling of cells in terminal bronchioli with BrdU is a sensitive index of ozone damage**)
P. Rajini, T.R. Gelzleichter, J.A. Last, H. Witschi (Davis, CA) **159–168**

A review of the relationship between acute toxicity (LC_{50}) of γ-hexachlorocyclohexane (γ-HCH, Lindane) and total lipid content of different fish species (**A literature review showing that body fat protects against toxicity of lipophilic compounds**)
H.J. Geyer, C.E. Steinberg, I. Scheunert, R. Brüggemann, W. Schütz, A. Kettrup, K. Rozman (Neuherberg and Wiesbaden, Germany; Kansas City, KS) **169–179**

Subchronic toxicity of 2,3,7,8-tetrabromodibenzo-*p*-dioxin in rats (**Brominated dioxins are less potent than the chlorinated forms**)
I.A. Ivens, E. Löser, M. Rinke, U. Schmidt, U. Mohr (Wuppertal and Hannover, Germany) **181–201**

Effect of chronic cadmium exposure on glutathione *S*-transferase and glutathione peroxidase activities in Rhesus monkey: the role of selenium (**Selenium can reverse the cadmium-induced decline in activity of both enzymes in four different organs**)
M. Sidhu, M. Sharma, M. Bhatia, Y.C. Awasthi, R. Nath (Chandigarh, India and Galveston, TX) **203–213**

Cadmium stimulation of plasminogen activator inhibitor-1 release from human vascular endothelial cells in culture (**A possible mechanism for cadmium-induced cardiovascular toxicity**)
C. Yamamoto, T. Kaji, M. Sakamoto, H. Kozuka (Kanazawa and Toyama, Japan) **215–223**

Corrigendum **225**

Contents of Journals Relating to Toxicology **227–232**
Subject Index **233–235**
Author Index **237**